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☐ 1: Q13268. Dehydrogenase/red...[gi:3915733]

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LOCUS Q13268 258 aa linear PRI 15-SEP-2003  
 DEFINITION Dehydrogenase/reductase SDR family member 2 (HEP27 protein)  
 (Protein D).  
 ACCESSION Q13268  
 VERSION Q13268 GI:3915733  
 DBSOURCE swissprot: locus DHS2\_HUMAN, accession Q13268;  
 class: standard.  
 extra accessions:Q9H2R2,created: Nov 1, 1997.  
 sequence updated: Dec 15, 1998.  
 annotation updated: Sep 15, 2003.  
 xrefs: gi: [1079565](#), gi: [1079566](#), gi: [11275674](#), gi: [11275675](#), gi:  
[13938401](#), gi: [13938402](#)  
 xrefs (non-sequence databases): HSSPP50162, GenewHGNC:18349,  
 GOGO:0005634, GOGO:0004022, GOGO:0005489, GOGO:0005975,  
 InterProIPR002198, PfamPF00106, PRINTSPR00080, PROSITEPS00061  
 KEYWORDS Oxidoreductase; Nuclear protein.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (residues 1 to 258)  
 AUTHORS Gabrielli,F., Donadel,G., Bensi,G., Heguy,A. and Melli,M.  
 TITLE A nuclear protein, synthesized in growth-arrested human  
 hepatoblastoma cells, is a novel member of the short-chain alcohol  
 dehydrogenase family  
 JOURNAL Eur. J. Biochem. 232 (2), 473-477 (1995)  
 MEDLINE [96035881](#)  
 PUBMED [7556196](#)  
 REMARK SEQUENCE FROM N.A., AND SEQUENCE OF 1-18.  
 REFERENCE 2 (residues 1 to 258)  
 AUTHORS Pellegrini,S., Censini,S., Guidotti,S., Covacci,A. and Gabrielli,F.  
 TITLE Direct Submission  
 JOURNAL Submitted (~MAR-2000)  
 REMARK SEQUENCE FROM N.A.  
 REFERENCE 3 (residues 1 to 258)  
 AUTHORS Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G.,  
 Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D.,  
 Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,  
 Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F.,  
 Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L.,  
 Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L.,  
 Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S.,  
 Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J.,  
 Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J.,  
 McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S.,  
 Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W.,  
 Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A.,  
 Fahey,J., Helton,E., Kettelman,M., Madan,A., Rodrigues,S.,

Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y.,  
 Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D.,  
 Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M.,  
 Butterfield,Y.S.N., Krzywinski,M.I., Skalska,U., Smailus,D.E.,  
 Schnerch,A., Schein,J.E., Jones,S.J.M. and Marra,M.A.

TITLE Generation and initial analysis of more than 15,000 full-length  
 human and mouse cDNA sequences

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

MEDLINE 22388257

PUBMED 12477932

REMARK SEQUENCE FROM N.A.  
 TISSUE=Skin

REFERENCE 4 (residues 1 to 258)

AUTHORS Donadel,G., Garzelli,C., Frank,R. and Gabrielli,F.

TITLE Identification of a novel nuclear protein synthesized in  
 growth-arrested human hepatoblastoma HepG2 cells

JOURNAL Eur. J. Biochem. 195 (3), 723-729 (1991)

MEDLINE 91153312

PUBMED 1847869

REMARK SEQUENCE OF 57-65; 118-123; 125-139 AND 175-182.

COMMENT On Nov 23, 1998 this sequence version replaced gi:2492750.

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 This SWISS-PROT entry is copyright. It is produced through a  
 collaboration between the Swiss Institute of Bioinformatics and  
 the EMBL outstation - the European Bioinformatics Institute.  
 The original entry is available from <http://www.expasy.ch/sprot>  
 and <http://www.ebi.ac.uk/sprot>  
 -----

[FUNCTION] May inhibit cell replication either by catalyzing the  
 oxidation of estrogen and androgen or by converting cortisone in  
 cortisol.  
 [SUBCELLULAR LOCATION] Nuclear.  
 [SIMILARITY] Belongs to the short-chain dehydrogenases/reductases  
 (SDR) family.

FEATURES Location/Qualifiers

source 1..258  
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gene 1..258  
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 /EC\_number="1.1.-.-"

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 /note="NAD OR NADP (BY SIMILARITY)."

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 /region\_name="Conflict"  
 /note="L -> V (IN REF. 4)."

Region 63  
 /gene="DHRS2"  
 /region\_name="Conflict"  
 /note="L -> G (IN REF. 4)."

Site 163  
 /gene="DHRS2"  
 /site\_type="active"  
 /note="BY SIMILARITY."

ORIGIN

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121 svnvkspall lsqllpymen rrgavilvss iaaynpvval gvynvsktal lgltrtlale
181 lapkdirvnc vvpgiiktdf skvfhgnesl wknfkehhl qrigesedca givsflcspd
241 asyvngenia vagystrl
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Dec 1 2003 12:53:28

RESULT 1

DHS2\_HUMAN

ID DHS2\_HUMAN STANDARD; PRT; 257 AA.  
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 DT 01-NOV-1997 (Rel. 35, Created)  
 DT 15-DEC-1998 (Rel. 37, Last sequence update)  
 DT 15-SEP-2003 (Rel. 42, Last annotation update)  
 DE Dehydrogenase/reductase SDR family member 2 (HEP27 protein) (Protein  
 DE D).  
 GN DHRS2.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A., AND SEQUENCE OF 1-18.  
 RX MEDLINE=96035881; PubMed=7556196;  
 RA Gabrielli F., Donadel G., Bensi G., Heguy A., Melli M.;  
 RT "A nuclear protein, synthesized in growth-arrested human  
 RT hepatoblastoma cells, is a novel member of the short-chain alcohol  
 RT dehydrogenase family.";  
 RL Eur. J. Biochem. 232:473-477(1995).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RA Pellegrini S., Censini S., Guidotti S., Covacci A., Gabrielli F.;  
 RT "Human Hep27 chromosomal gene.";  
 RL Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Skin;  
 RX MEDLINE=22388257; PubMed=12477932;  
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,  
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,  
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
 RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
 RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,  
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,  
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;  
 RT "Generation and initial analysis of more than 15,000 full-length  
 RT human and mouse cDNA sequences.";  
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
 RN [4]  
 RP SEQUENCE OF 57-65; 118-123; 125-139 AND 175-182.  
 RX MEDLINE=91153312; PubMed=1847869;  
 RA Donadel G., Garzelli C., Frank R., Gabrielli F.;  
 RT "Identification of a novel nuclear protein synthesized in growth-  
 RT arrested human hepatoblastoma HepG2 cells.";

SCRM-1



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